Accoration 03 MAR 2005 10/526520

PART COOPERATION TREAT

PCT

REC'D 23 DEC 2004

INTERNATIONAL PRELIMINARY EXAMINATION TO THE PORT

PCT

(PCT Article 36 and Rule 70)

30A-88 738	reference FOR FURTHER	R ACTION See Notifica Preliminary	tion of Transmittal of International Examination Report (Form PCT/IPEA/416)
International application	No. International filing of	date (day/month/year)	Priority date (day/month/year)
PCT/EP 02/10887	27.09.2002		27.09.2002
International Patent Clas	sification (IPC) or both national classifica	ition and IPC	
H04Q7/38			
•			
Applicant	DLAGET LM ERICSSON (PUBL)	et al.	· · · · · · · · · · · · · · · · · · ·
	——————————————————————————————————————		
This internation Authority and is	al preliminary examination report ha transmitted to the applicant according	s been prepared by this ng to Article 36.	International Preliminary Examining
2. This REPORT	consists of a total of 8 sheets, includ	ling this cover sheet.	;
1	rt is also accompanied by ANNEXES ended and are the basis for this repo e 70.16 and Section 607 of the Admi	nt andior sneets containt	ription, claims and/or drawings which have ng rectifications made before this Authority der the PCT).
These annexes	s consist of a total of 4 sheets.		·
	•		
3. This report cor	ntains indications relating to the follo	wing items:	, · · · · · · · · · · · · · · · · · · ·
	sis of the opinion	·	
	ority		
III 🖾 No	n-establishment of opinion with rega	ard to novelty, inventive s	tep and industrial applicability
IV ∏ la	ck of unity of invention		
V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			Ity, inventive step or industrial applicability;
	ertain documents cited		
VII Certain defects in the international application			
VII 🗆 Ce	ertain defects in the international app	olication	
VIII C	ertain defects in the international app ertain observations on the internation	olication nal application	, ,
VII 🗆 Ce	ertain defects in the international appertain observations on the internation	olication nal application	
VII	ertain observations on the internation	olication nal application Date of completion	on of this report
VIII 🗆 Ce	ertain observations on the internation	nal application	on of this report
Date of submission of 20.04.2004	ertain observations on the internation	Date of completion	
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Date of submission of 20.04.2004 Name and mailing ac preliminary examinin Europ	ertain observations on the internation the demand	Date of completion	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 02/10887

i.	Basis	of the	report
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Desc	ription, Pages			
1-20			as originally filed		
	OI - '-	Neuroleana			
		ns, Numbers	11.08.2004		
	1-16		received on 11.08.2004 with letter of 11.08.2004		
	Drav	vings, Sheets			
	1/8-8	3/8	as originally filed		
With regard to the language, all the elements marked above were available or furnished to this Authority in t language in which the international application was filed, unless otherwise indicated under this item.					
	The	se elements were avai	ilable or furnished to this Authority in the following language: , which is:		
		the language of a tran	nslation furnished for the purposes of the international search (under Rule 23.1(b)).		
		the language of public	cation of the international application (under Rule 48.3(b)).		
		Rule 55.2 and/or 55.3	·		
3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:					
		contained in the inter	national application in written form.		
		filed together with the	international application in computer readable form.		
		furnished subsequen	tly to this Authority in written form.		
☐ furnished subsequently to this Authority in computer readable form.					
		ne subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.			
		The statement that the listing has been furni	ne information recorded in computer readable form is identical to the written sequence ished.		
4	. Th	e amendments have re	esulted in the cancellation of:		
		the description,	pages:		
		the claims,	Nos.:		
		the drawings,	sheets:		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

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5. [5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).							
		(Any replacement sheet containing report.)	g suci	h amendmen	ts must be referred to under item 1 and annexed to this			
6.	Add	ditional observations, if necessary:			•			
111.	III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
	 The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of: 							
	☐ the entire international application,							
	☑ claims Nos. 11, 12							
		because:						
the said international application, or the said claims Nos. relate to the following subject matter w not require an international preliminary examination (specify):								
the description, claims or drawings (indicate particular elements below) or said claims Nos. 11, 12 unclear that no meaningful opinion could be formed (specify):					ular elements below) or said claims Nos. 11, 12 are so d (specify):			
		see separate sheet						
•		could be formed.			supported by the description that no meaningful opinion			
		no international search report h	as bee	en establishe	d for the said claims Nos.			
2	 A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/ or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions: 							
	Ε	the written form has not been for	urnish	ed or does no	ot comply with the Standard.			
	the computer readable form has not been furnished or does not comply with the Standard.							
 V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement 								
· -· .	1. Statement							
	!	Novelty (N)	Yes: No:	Claims Claims	1-16			
		Inventive step (IS)	Yes: No:	Claims Claims	3,9 1,2,4-8,10-16			
		Industrial applicability (IA)	Yes: No:	Claims Claims	1-16			
	1. 3	citations and explanations suppo Statement Novelty (N) Inventive step (IS)	Yes: No: Yes: No: Yes:	Claims Claims Claims Claims Claims Claims	1-16 3,9 1,2,4-8,10-16			

2. Citations and explanations

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6. -- .

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see separate sheet

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Re Item III

Non-establishment of report with regard to novelty, inventive step and industrial applicability

1. Claims 11 and 12 relate to subject-matter excluded from International Preliminary Examination (Rule 67 PCT, PCT Guidelines 9.11, 9.12).

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Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: US 2001/038619 A1 D2: WO 99/ 60729 A1

2. The solution claimed in Claim 1 of the present application cannot be considered as involving an inventive step (Article 33(3) PCT) for the following reasons.

Document **D1**, which is considered to represent the most relevant state of the art, discloses, according to the essential features of **Claim 1** (applying the terminology of present Claim 1 and the references to D1) a method of requesting access to a node (BS) of a wireless communications network (paragraphs [0022], [0023]), comprising the step of:

- determining information about a transmission path (initial transmit power of Common Pilot Channel) within the network (paragraphs [0002] [0004]);
- determining an identification code, in dependence on the determined transmission path information, wherein previously an association between identification codes and transmission path information has been established, and generating an access request signal carrying transmission path information (D1 discloses that the mobile station uses as the transmission of path information to the base station an indication of the measured downlink path loss (paragraphs [0025]-[0028]), such that the Access Preamble (AP) in an access request signal (the RACH uplink

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channel) is coded with one of a plurality of different signature combinations (paragraph [0032]) for every predetermined different range of measured power of the DL channel (e.g. CPICH). Hence, an association between id codes (signatures) and path info (downlink path loss) is established);

The subject-matter of Claim 1 therefore differs from D1 in that it claims:

- id codes used to differentiate access requests of different network components;
- modulating the determined identification code onto a signal to generate an access request signal carrying transmission path information.

The objective problem solved by these features would be regarded by the skilled person as to provide means to uniquely identify one of a plurality of mobile stations requesting access to a particular mode in a wireless communication network on the basis of transmission path characteristics.

Although, **D1** does not explicitly state to modulate the determined identification code (signature) onto the access request signal carrying transmission path information, this technical feature is obvious for the person skilled in spread spectrum communication systems (see for instance Document **D2**, page 3, lines 10-14 disclosing a Random Access Scheme for CDMA or WCDMA communication system).

Moreover, as disclosed in **D2** (see for instance page 3, lines 10-19) the access preamble contains a signature that is used to differentiate the several mobile stations attempting to get access to the network and thus avoid collisions, hence, as the name "signature" suggests, providing an identification information of the mobile station.

Thus, the subject-matter of Claim 1 does not involve an inventive step and Claim 1 does not satisfy the criterion set forth in Article 33(3) PCT.

3. The solution claimed Claim 6 of the present application cannot be considered as involving an inventive step (Article 33(3) PCT) for the following reasons.

Claim 6 contains a corresponding feature combination as a counterpart of Claim 1 in

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terms of a method of controlling access to a base station node based on the same access request signal.

Therefore, the same considerations made in respect of the features of Claim 1 are also valid for Claim 6, thus the subject-matter of Claim 6 does not involve an inventive step (Article 33(3) PCT).

4. The same considerations as made in respect of independent Claims 1 and 6 are also valid for independent Claims 13 and 15, which contain a similar feature combination as Claims 1 and 6 (all except the modulation/demodulation)) respectively in terms of claims relating to a User Equipment apparatus and a Base Station apparatus.

Therefore, the subject-matter of independent Claims 13 and 15 does not involve an inventive step in the sense of Articles 33(3) PCT.

5. The features defined in **dependent Claims 2, 4 to 5, 7, 8, 10, 14 and 16** do not add anything of inventive significance to **Claims 1, 6, 13 and 15** respectively because they relate to minor details and are either directly derivable from the above-mentioned prior art documents **D1 and D2**, or represents standard practice.

Therefore, the subject-matter of dependent Claims 2, 4, 5, 7, 8, 10, 14 and 16 does not involve an inventive step in the sense of Articles 33(3) PCT.

- 6. The features in dependent Claims 3 and 9:
 - access control signal simultaneously includes access control information for a plurality of network components; and
 - wherein the access control information for each network component is associated in the access control signal with an individual id code.

are neither known from D1, nor rendered obvious by the other available prior art document D2.

7. Furthermore, certain observation on the clarity of the claims are made and certain

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defects in the application documents are noted in the following:

- Claim 11 defines a computer program product for performing the steps of one of 7.1 Claims 1 to 10 when the program runs on "a" (therefore "one") network component, but from this definition the reader derives the impression that the same computer program is executed on both network components defined by Claims 1 to 5 (UE) and Claims 6 to 10 (BS). Because of this ambiguity in its definition, Claim 11 does not meet the requirements of Article 6 PCT. It is furthermore noted that the features of Claim 11 should be rather defined by two distinct Claims. defining a computer program for performing the steps of the method of Claims 1 to 5 (UE) and Claims 6 to 10 (BS) respectively.
- 7.2 Independent claims are not in the two-part form recommended by Rule 6.3(b) PCT with the features known in combination from the prior art (document D1) being placed in the preamble (Rule 6.3(b)(I) PCT) and with the remaining features being included in the characterising part (Rule 6.3(b)(ii) PCT).
- 7.3 The opening part of the description has not been modified to bring it into agreement with the amended claims, Rule 5.1(a)(iii) PCT.
- 7.4 The cited document D1 has not been acknowledged and briefly discussed in the opening part of the description as recommended by Rule 5.1(a)(ii) PCT.